Journal of Neuroscience Methods, 40 (1991) 247–248
Elsevier Science Publishers B.V.

Contents of Volume 40

Number 1 – November 1991

Research papers

A novel device for chronic intracranial drug delivery via microdialysis
T.J. Bazzett, J.B. Becker and R.L. Albin (U.S.A.) 1

A rapid binding assay for solubilized dopamine transporters using [^{3}H]WIN 35,428
R.A. Vaughan, R. Simantov, R. Lew and M.J. Kuhar (U.S.A.) 9

Destruction of a sub-population of cortical neurones by suicide transport of volkensin, a lectin from *Adenia volkensii*
M.N. Pangalos, P.T. Francis, R.C.A. Pearson, D.N. Middlemiss and D.M. Bowen (U.K.) 17

The internal reference technique in microdialysis: a practical approach to monitoring dialysis efficiency and to calculating tissue concentration from dialysate samples
D. Scheller and J. Kolb (Germany) 31

Imaging of fluorescent neurons labelled with fluoro-gold and fluorescent axon terminals labelled with AMCA (7-amino-4-methyl-coumarine-3-acetic acid) conjugated antiserum using a UV-laser confocal scanning microscope
B. Ulfhake, K. Carlsson, K. Mossberg, U. Arvidsson and P.J. Helm (Sweden, Germany) 39

Cooling / heating module for tissue chambers and solutions: theoretical considerations and practical design
N.B. Datyner and I.S. Cohen (U.S.A.) 49

A modified quantitative autoradiographic assay for atrial natriuretic peptide receptors in rat brain
S. Zorad, A. Alsasua and J.M. Saavedra (U.S.A.) 63

Forward-backward non-linear filtering technique for extracting small biological signals from noise
S.H. Chung and R.A. Kennedy (Australia) 71

Number 2 – December 1991

Research papers

Verification of the Devor et al. (1985) method of determining neural numbers
R.E. Coggeshall (U.S.A.) 87

Analysis of rat EEG using autoregressive power spectra
P.G. Madhavan, B.E. Stephens, D. Klingberg and S. Morzorati (U.S.A.) 91

Intracellular recording of light responses from visually identified ganglion cells in the rabbit retina
R.J. Jensen (U.S.A) 101

Optimization of glass microelectrode properties by response surface methodology
W.S. Kisaalita, R.S. Skeen, B.J. Van Wie, C.D. Barnes and S.J. Fung (U.S.A.) 113

Interactive program for spectral and area analysis of compound action potentials of A-fiber and C-fiber
F.-S. Jaw, S.-N. Yu, J.-C. Lee, H.-W. Tsao, H.J. Yu and C.-T. Yen (Taiwan) 121

Measurements of the extracellular potassium concentrations in the isolated rabbit retina with different kinds of potassium-sensitive microelectrodes
W.-U. Mättig and R. Hanitzsch (F.R.G.) 127

Purification of glial fibrillary acidic protein (GFAP) from normal bovine brain
R. Fukuyama, S. Fushiki and S. Fujita (Japan) 133

The in vivo microdialysis recovery of dopamine is altered independently of basal level by 6-hydroxydopamine lesions to the nucleus accumbens
L.H. Parsons, A.D. Smith and J.B. Justice, Jr. (U.S.A.) 139

Multiple spike-train analysis using mutual interval matrix
P. Kaluzny, R. Tarnecki and W. Zmyslowski (Poland) 149

Single-unit recording in the ventral cochlear nucleus of behaving cats
B.J. May, C.M. Aleszczyk and M.B. Sachs (U.S.A.) 155

Cross-correlation analysis of multi-unit EMG recordings in man
L.M. Harrison, R. Ironton and J.A. Stephens (U.K.) 171

Coincident recording and stimulation of single and multiple neuronal activity with one extracellular microelectrode
I.D. Hentall (U.S.A.) 181

Membrane depolarization by isotonic or hypertonic KCL: differential effects on mRNA levels of tyrosine hydroxylase and dopamine β-hydroxylase mRNA in PC12 cells
E.J. Kilbourne, A. McMahon and E.L. Sabban (U.S.A.) 193

A slim needle-shaped multiwire microelectrode for intracerebral recording
T. Jellema and J.A.W.M. Weijnen (The Netherlands) 203

The effects of four days of continuous striatal microdialysis on indices of dopamine and serotonin neurotransmission in rats
T.E. Robinson and D.M. Camp (U.S.A.) 211

Dynamic monitoring of [^{11}C]diprenorphine in rat brain using a prototype positron imaging device
S. Rajeswaran, S.P. Hume, J.E. Cremer, J. Young, D.L. Bailey, J. Ashburner, S.K. Luthra, A.K.P. Jones and T. Jones (U.K., U.S.A.) 223

A transient osmotic permeabilization method for the introduction of impermeant molecules into functional brain membrane vesicles
N.J. Leidenheimer and R. Adron Harris (U.S.A.) 233

Author Index (Vol. 40) 243

Subject Index (Vol. 40) 245

Contents of Volume 40 247